

Bioactive

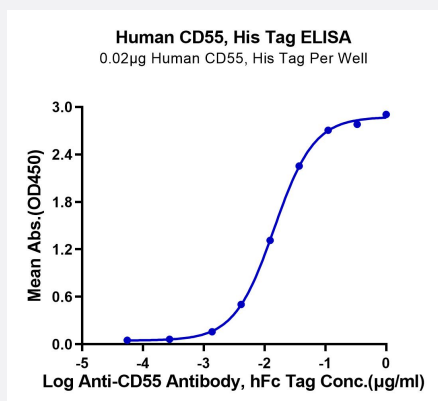
HuPro®

CD55 (Human) Recombinant Protein

Catalog # P9800

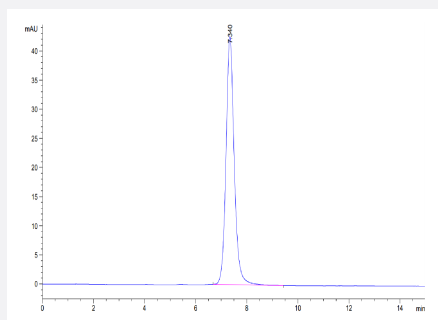
Size 100 ug

Applications



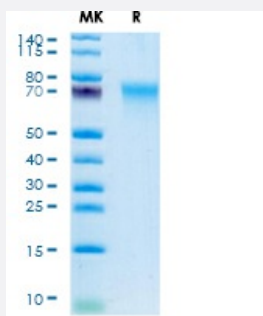
Enzyme-linked Immunoabsorbent Assay

Immobilized Human CD55, His Tag at 0.2 ug/mL (100 uL/well) on the plate. Dose response curve for Anti-CD55 Antibody, hFc Tag with the EC₅₀ of 14.3ng/mL determined by ELISA.



SEC-HPLC

The purity of Human CD55 is greater than 95% as determined by SEC-HPLC.



Tris-Bis PAGE

Human CD55 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

Specification

Product Description	Human CD55 (P08174-1, Asp35-Ser353) partial recombinant protein with His tag at C-terminus expressed in HEK293 cells.
Sequence	Asp35-Ser353
Host	Human
Theoretical MW (kDa)	35.8
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE; > 90% as determined by HPLC
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The EC ₅₀ was 14.3 ng/mL, measured by ELISA at 0.2 ug/mL.
Quality Control Testing	SEC-HPLC and Tris-Bis PAGE SEC-HPLC The purity of Human CD55 is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human CD55 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity ELISA SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis

Applications

- Enzyme-linked Immunoabsorbent Assay

Immobilized Human CD55, His Tag at 0.2 ug/mL (100 uL/well) on the plate. Dose response curve for Anti-CD55 Antibody, hFc Tag with the EC₅₀ of 14.3ng/mL determined by ELISA.

- Functional Study

- SDS-PAGE

Gene Info — CD55

Entrez GeneID	1604
Protein Accession#	P08174-1
Gene Name	CD55
Gene Alias	CR, CROM, DAF, TC
Gene Description	CD55 molecule, decay accelerating factor for complement (Cromer blood group)
Omim ID	125240
Gene Ontology	Hyperlink
Gene Summary	<p>This gene encodes a protein involved in the regulation of the complement cascade. The encoded glycoprotein is also known as the decay-accelerating factor (DAF); binding of DAF to complement proteins accelerates their decay, disrupting the cascade and preventing damage to host cells. Antigens present on the DAF glycoprotein constitute the Cromer blood group system (CROM). Two alternatively spliced transcripts encoding different proteins have been identified. The predominant transcript encodes a membrane-bound protein expressed on cells exposed to plasma component proteins but an alternatively spliced transcript produces a soluble protein present at much lower levels. Additional, alternatively spliced transcript variants have been described, but their biological validity has not been determined. [provided by RefSeq]</p>
Other Designations	CD55 antigen decay accelerating factor for complement

Pathway

- [Complement and coagulation cascades](#)
- [Hematopoietic cell lineage](#)

Disease

- [Asthma](#)
- [Birth Weight](#)
- [Chorioamnionitis](#)
- [Down Syndrome](#)
- [Fetal Membranes](#)

- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Leukemia](#)
- [Lymphoma](#)
- [Macular Degeneration](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
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